* NOTICES *

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3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]
[Claim 1] In a computer system equipped with the body of a computer, and at least one peripheral device connected to this body of a computer The nonvolatile memory which registers an identification number into the body of a computer and a peripheral device, respectively is prepared. The identification number comparator with which said body of a computer compares the identification number registered into the nonvolatile memory of this body of a computer, and the identification number registered into the nonvolatile memory of a peripheral device, The computer system characterized by having the peripheral-device use judging section which makes use of a peripheral device authorization or disapproval based on the comparison result of this identification number comparator.
[Claim 2] Said peripheral-device use judging section is a computer system according to claim 1 which has further the function to register an identification number into the nonvolatile memory of said peripheral device.
[Claim 3] Said identification number comparator is a computer system according to claim 1 or 2 which has further the function which compares the identification number inputted by the operator with the identification number registered into the nonvolatile memory of said body of a computer.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention] Especially this invention relates to the security technique for inhibiting the theft of the peripheral device of a computer system about a computer system.
[0002]
[Description of the Prior Art] As security of a computer system, two, protection of the data recorded on the computer system and theft prevention of the equipment which constitutes a computer system, are important. About the security of the data in a computer system, the cure which eliminates the use of those other than a person concerned by adding locking with the key aiming at protection of an in-house data and the startup conditions by password collating etc. is known conventionally. However, about theft prevention of the equipment of a computer system itself, a cure is hardly taken.
[0003]
[Problem(s) to be Solved by the Invention] It is possible to make a peripheral device usable only in a certain specific computer system as one method of preventing the theft of a peripheral device. However, since preparing a data protection function with which the computer system body is equipped generally is not made to a peripheral device, it is difficult to take such a cure.
[0004] This invention aims at offering the computer system which can prevent the theft of the peripheral device of a computer system in view of the above.
[0005]
[Means for Solving the Problem] In the computer system which the computer system of this invention equips with the body of a computer, and at least one peripheral device connected to this body of a computer The nonvolatile memory which registers an identification number into the body of a computer and a peripheral device, respectively is prepared. The identification number comparator with which said body of a computer compares the identification number registered into the nonvolatile memory of this body of a computer, and the identification number registered into the nonvolatile memory of a peripheral device, It is characterized by having the peripheral-device use judging section which makes use of a peripheral device authorization or disapproval based on the comparison result of this identification number comparator.
[0006] In the desirable mode of the computer system of this invention, the above-mentioned peripheral-device use judging section has further the record function to register an identification number into the nonvolatile memory of a peripheral device. Thereby, the completely same identification number for example, as the body of a computer or a related identification number can be registered into a peripheral device.
[0007] Moreover, it is also a desirable mode to have further the function in which the above-mentioned identification number comparator compares the identification number inputted by the operator with the identification number registered into the nonvolatile memory of said body of a computer. In this case, the security of a KOMPYU body also improves.
[0008] In the computer system of this invention, in order for an identification number comparator to

compare the identification number registered into the nonvolatile memory of the body of a computer, and the identification number registered into the nonvolatile memory of a peripheral device in advance of use of a peripheral device, and to permit use of a peripheral device in the peripheral-device use judging section based on the comparison result or to consider as disapproval, only the peripheral device registered in advance becomes usable. If it comes to occupy most computer systems to which this computer system is furnished, use of the peripheral device of stolen goods will be eliminated.

[0009]

[Embodiment of the Invention] Based on the example of an operation gestalt of this invention, this invention is further explained to a detail. Drawing 1 is the typical block diagram showing the computer system of the example of 1 operation gestalt of this invention. A computer system consists of a body 10 of a computer, and two or more peripheral devices (it is two on a drawing) 20 and 30. The body 10 of a computer has the ID comparator 13 which compares with ID of the body 10 of a computer and ID of peripheral devices 20 and 30 the data-processing section 11 which performs the usual data processing, and the nonvolatile memory 12 for registering the identification number (ID) of the body of a computer, and the peripheral-device initial entry Records Department 14 which has the function to judge authorization or the disapproval of use of a peripheral device according to the comparison result of the ID comparator 13. The nonvolatile memory for registering ID is prepared in both peripheral devices 20 and 30, respectively. A flash ROM can be used for the nonvolatile memory of the body of a computer, and a peripheral device.

[0010] As shown in drawing 1 , the delimiter of the body of a computer and "AAA" are recorded on the nonvolatile memory 12 of the body 10 of a computer. The delimiter (ID) is registered also into both peripheral devices 20 and 30 by nonvolatile memory, respectively, an input unit is accomplished and delimiter "BBB" is recorded on the peripheral device 30 of another side where delimiter"AAA" is constituted by the peripheral device 20 as a mouse, respectively. Here, since delimiter"AAA" of the body 10 of a computer differs from delimiter "BBB" of a mouse 30, a mouse 30 is eliminated by the peripheral-device initial entry Records Department 14 from this computer system based on the information from the ID comparator 13 of the body 10 of a computer.

[0011] Drawing 2 is the flow Fig. showing the processing in the computer system of the above-mentioned example of an operation gestalt. A startup of a computer system confirms whether ID of the body of a computer is registered (step S2). (step S1) If ID of the body of a computer is not registered into nonvolatile memory, it is urged twice to the key input of ID registration approximately, and it is checked that this ID inputted twice is the same as mutual (step S3, S4). After registering checked ID into the nonvolatile memory of the body of a computer as ID of the body of a computer, it progresses to (step S5) and step S8, and the mask of the nonvolatile memory of the body of a computer is carried out. With this mask, the read/write of ID is forbidden at least until a power source is switched on again.

[0012] If the registration settled of ID of a KOMPYU body is checked at step S2, it will be urged to the key input for ID collating to an operator. If there is a key input of ID (step S6), ID registered into the nonvolatile memory of the body of a computer and ID which it keyed will be collated (step S7). As a result of collating, it returns that both ID is inharmonious to step S6, and is urged to ID input for the second time. If both ID is in agreement, it will move to the mask of the nonvolatile memory of step S8.

[0013] Following on step S8, the existence of connection of a peripheral device is checked (step S9), and it is confirmed about one of the peripheral devices with which connection was checked whether the ID is registered (step S10). If ID has not been registered, the peripheral-device initial entry Records Department will register the same ID as ID of the body of a computer into the nonvolatile memory of a peripheral device (step S11). Then, according to the usual processing, a setup required for use of a peripheral device is performed (step S12), connection authorization of the peripheral device concerned is registered into the peripheral-device initial entry Records Department (step S13), and it moves to step S18.

[0014] At step S10, if ID of a peripheral device is already registered, it will be confirmed whether the ID is the same as ID of the body of a computer (step S14). If ID of a peripheral device and ID of the body of a computer are not in agreement, use of the peripheral device is made into disapproval (step S15), and

the purport whose connection of the peripheral device concerned is disapproval is registered into the peripheral-device initial entry Records Department (step S16), and, subsequently to step S18, it moves to it.

[0015] registering the purport of connection authorization of the peripheral device concerned to the peripheral-device initial entry Records Department (step S17), and carrying out the mask of the nonvolatile memory of the peripheral device, if both ID is in agreement at step S14 -- (step S18) -- a subsequent lead and a light are forbidden until a power source is switched on again at least, and processing of the peripheral device concerned is ended. In addition, if there is a peripheral device (step S19), the processing same about return and its peripheral device as the above-mentioned processing will be performed to step S9, in addition if there is no peripheral device, all processings about a peripheral device will be ended. Then, it moves from a computer system to boot processing (step S20).

[0016] In the above-mentioned example of an operation gestalt, since it has registered with the peripheral-device initial entry Records Department 14, the body of computer 10 interior, the information about the peripheral device 20 (drawing 1) which can be used by this computer system, and the peripheral device 30 which cannot be used can be referred to at any time.

[0017] In addition, although the above-mentioned example of an operation gestalt showed the example which forbade a lead and a light until a power source is switched on again with the mask of nonvolatile memory, it can replace with this and any rewritings can also be forbidden after registration of ID in nonvolatile memory. In this case, security improves further.

[0018] Moreover, although the example which judges authorization or the disapproval of use of a peripheral device by the peripheral-device initial entry Records Department was given, it may replace with this and the peripheral-device use judging section may be prepared as another program. Moreover, ID of the body of a computer is keyed for collating, and although the example which collates this and registered ID was given, an operator's own ID is inputted and you may make it collate.

[0019] As mentioned above, although this invention was explained based on the suitable example of an operation gestalt, this invention is not limited only to the configuration of the above-mentioned example of an operation gestalt, and the computer system which performed various corrections and modification from the configuration of the above-mentioned example of an operation gestalt is also included in the range of this invention.

[0020]

[Effect of the Invention] As mentioned above, since it constituted according to the computer system of this invention so that use of a peripheral device might be permitted based on the result of having carried out comparison collating of ID of the both sides of the body of a computer, and a peripheral device as explained, there is effectiveness which inhibits the theft of the peripheral device of a computer system.

[Translation done.]

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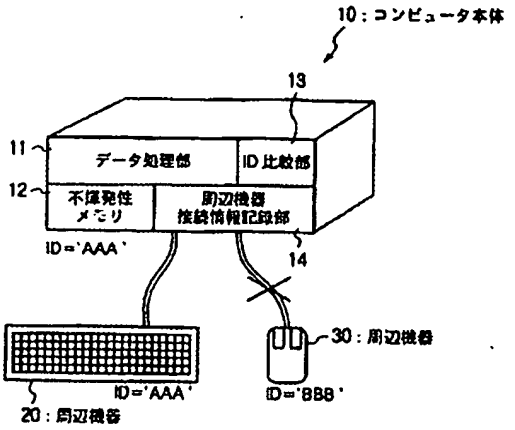
11　データ処理部
12　不揮発性メモリ
13　周辺機器接続情報記録部

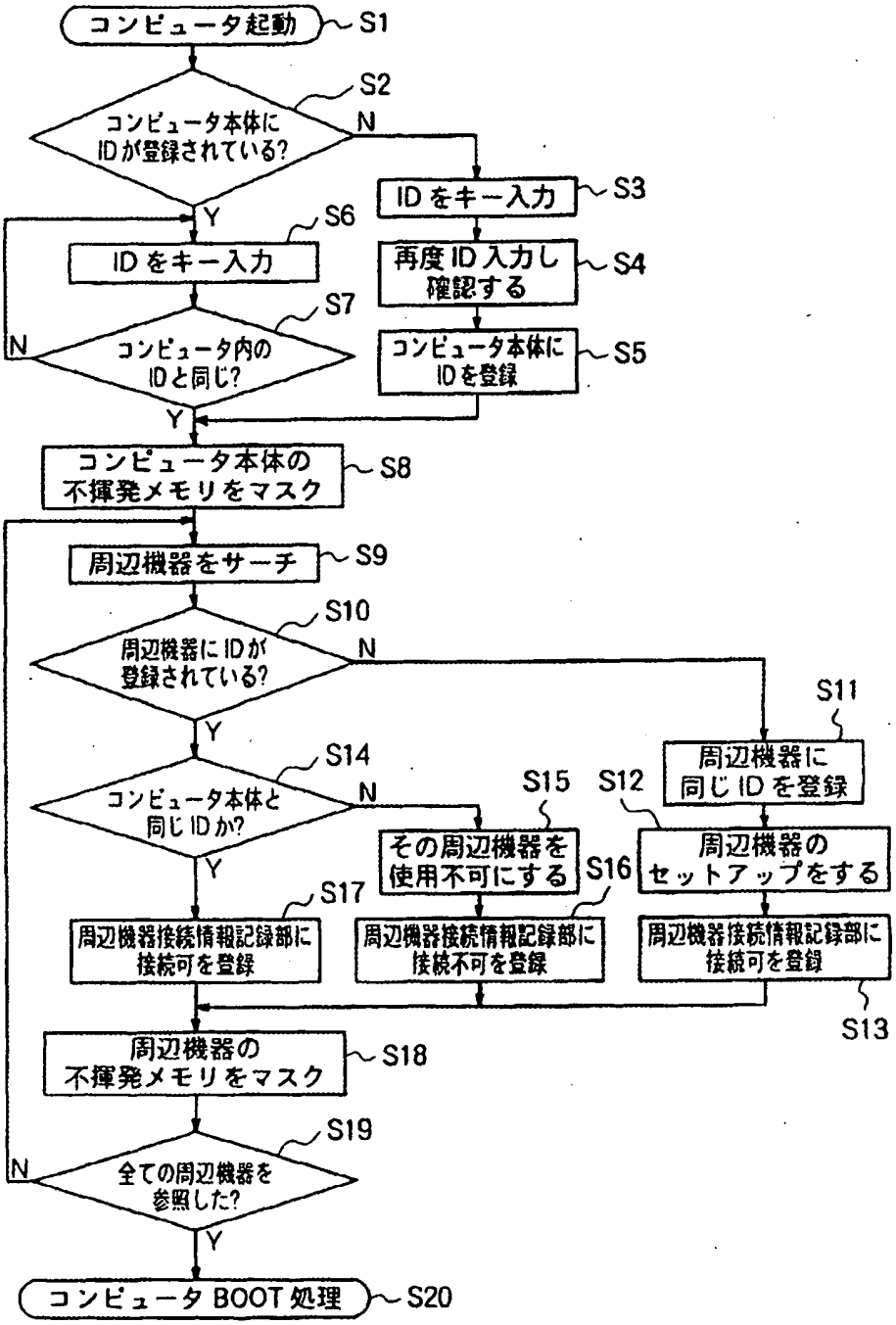
6

14　ＩＤ比較部
20　周辺機器（入力装置）
30　周辺機器（マウス）

【図1】



【図2】


コンピュータ起動
S1
コンピュータ本体にIDが登録されている?
S2
N
Y
IDをキー入力
S3
再度ID入力し確認する
S4
コンピュータ本体にIDを登録
S5
IDをキー入力
S6
コンピュータ内のIDと同じ?
S7
N
Y
コンピュータ本体の不揮発メモリをマスク
S8
周辺機器をサーチ
S9
周辺機器にIDが登録されている?
S10
N
Y
周辺機器に同じIDを登録
S11
S12
コンピュータ本体と同じIDか?
S14
N
Y
その周辺機器を使用不可にする
S15
S16
周辺機器のセットアップをする
周辺機器接続情報記録部に接続可を登録
S17
周辺機器接続情報記録部に接続不可を登録
周辺機器接続情報記録部に接続可を登録
S13
周辺機器の不揮発メモリをマスク
S18
全ての周辺機器を参照した?
S19
N
Y
コンピュータBOOT処理
S20